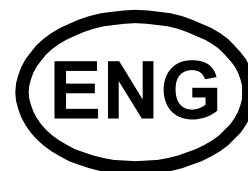




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Translation of the original  
user guide

## USER GUIDE

*liXion*



**LIXION adaptable with Adaptor unit**

**Self-contained LIXION (with battery and cord)**

### CONTENTS OF THE CASE:

- Pruning shears with **Adaptor unit**
- Arm band
- Sharpening stone
- Adjusting wrench
- Tube of grease
- Holster
- Flat-blade screwdriver
- Warranty card
- User's guide
- Hexagonal wrench

- Pruning shears with lead
- Arm band
- Sharpening stone
- Adjusting wrench
- Tube of grease
- Holster
- Flat-blade screwdriver
- Warranty card
- User's guide
- Hexagonal wrench

**READ THE USER'S GUIDE CAREFULLY BEFORE USE**



# Table of contents

<b>INTRODUCTION</b>	<b>3</b>
<b>SAFETY INSTRUCTIONS</b>	<b>9</b>
GENERAL SAFETY INSTRUCTIONS FOR THE TOOL	10
SAFETY WARNINGS FOR LIXION BATTERY-POWERED SHEARS	11
SAFETY MEASURES FOR THE CHARGER AND THE BATTERY	11
<b>DESCRIPTION AND TECHNICAL CHARACTERISTICS</b>	<b>12</b>
TECHNICAL CHARACTERISTICS	13
<b>USING FOR THE FIRST TIME</b>	<b>13</b>
VERSION LIXION + CORD + SHEARS BATTERY	13
VERSION LIXION + ADAPTOR UNIT + MULTIFUNCTION BATTERY	13
<b>USE</b>	<b>14</b>
ADVICE FOR USE	14
REMARKS	14
SHARPENING	15
TIGHTENING THE BLADE	15
DESCRIPTION OF THE CUTTING HEAD	16
REPLACING THE BLADE OR PINS	16
REPLACING THE HOOK	16
ADJUSTING BLADE BYPASS	16
<b>MISCELLANEOUS MAINTENANCE</b>	<b>17</b>
MAINTENANCE PARTS	17
REPLACING THE BATTERY	17
OUTSIDE THE PRUNING PERIOD	17
<b>INCIDENTS</b>	<b>17</b>
<b>«PELLENC SA» TERMS OF WARRANTY AND NON-RESPONSIBILITY CLAUSE</b>	<b>18</b>
<b>"EC" DECLARATION OF CONFORMITY</b>	<b>20</b>

## INTRODUCTION

Dear Customer,

Thank you for purchasing the **LIXION Evolution** vineyard pruning shears. Correctly used and maintained, this tool will give satisfactory performance for years to come.

**With more than 20 years of experience in portable electric equipment, Pellenc proposes a large range of Lithium-Ion and Lithium-Polymer powered tools intended for professional use and designed for maintenance work in green spaces, orchards and vineyards, and cleaning equipment for public roads.**

Pellenc sets the stage for a new generation of tools combining the advantages of cordless electricity with the power of Lithium-Ion and Lithium-Polymer, designed for intensive, high quality work.

Increasingly quiet and compact, environmentally friendly, economically very profitable and complying with ever more strict specifications regarding ergonomics, power and autonomy, Pellenc tools prove their worth every day, whether in vineyards, orchards or for the maintenance of green spaces and public sectors. Pellenc tools are the world leader in this field.

Because of the lightweight nature and easy handling of PELLENC tools, users can work better, with less effort, without noise and faster than with heat-engine powered tools.

A single unique energy source powers PELLENC tools intended for professional use: The Ultra Lithium Battery. This revolutionary battery is available in several models, with extended work capabilities. Once purchased, this battery is compatible with most of the Pellenc Green and City Technology range of products.

*«Innovation, ability to listen, quality and environmental friendliness are PELLENC priorities.»*

## OUR high capacity Ultra Lithium-Ion BATTERIES

**PELLENC is the first and only manufacturer worldwide** to propose a whole range of professional tools for Parks and Gardens, Local Authorities, Golf Courses, Orchards, Vineyards etc. operated using **ultra-high capacity ternary Lithium-Ion batteries**.

PELLENC has developed its own Lithium-based technology for **the best results in terms of output power, autonomy, weight and ergonomics**. The result is enlightening as the Pellenc Lithium-Ion technology is nearly twice more efficient than the Manganese Lithium-Ion technology. Manganese Lithium-Ion contains **125 W/kg, while Pellenc Lithium-Ion contains 250 W/kg**.

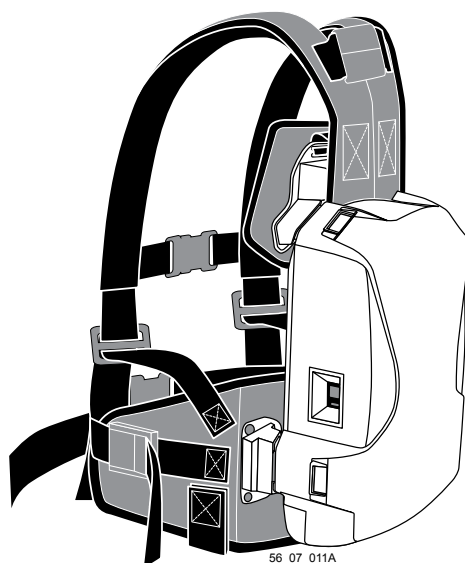
Furthermore, our ultra-high capacity batteries have an ranging from 800 to 1,500 cycles (one cycle corresponds with a full charge and discharge). Even after hundreds of days of use, the battery still reaches over 80% of its initial capacity.

Equipped with a **patented intelligent system**, Pellenc batteries can be charged at any time without memory effect and without altering their lithium-ion components. They automatically discharge after several days of non-use in order to be stored risk free for several months.

The ultra-high capacity of Ultra Lithium Batteries guarantees **pollution free, odourless and quiet operation with a record level of autonomy**.

## INTRODUCTION

For example, a PELLENC ULB 1100 battery is equivalent to over  
**4700 liters of gasoline and 90 liters of mixture!**



### Characteristics of the ULTRA LITHIUM BATTERY

- **Secure system (patented)** guarantees the preservation of your battery in the event of overloading, discharging or over-heating
- **Life system (patented):** ensures an optimum service life for your battery by protecting each of the components individually
- **Balance system (patented):** guarantees the balancing of the various battery components in order to optimise balanced operation
- **Power system (patented):** enables use of the entire range of PELLENC tools within the scope of a professional activity thanks to the restitution of the battery's maximum capacity

### Advantages of the ULTRA LITHIUM BATTERY

- **Environmentally friendly** the energy used by PELLENC tools is environmentally friendly and participates in an initiative towards sustainable development. Compared to equivalent heat engine powered tools, CO2 emissions are 30 to 90 times lower.
- **Power:** PELLENC equipment ensures the user has an unequalled power supply of up to 3,000 W.
- **Savings:** the battery permits up to a full day of work at a derisory total cost.
- **Ergonomics:** PELLENC tools are very quiet and light, offering unrivalled comfort and optimal working conditions.
- **Cost-effectiveness:** the cost of your battery will be recovered in under a year of use (from 135 days). The return on investment in the battery over its service life is greater than 5,000 € thanks to the savings on fuel which is not required\*.

### Compatibility of our batteries with our machines:

All PELLENC multi-function Ultra Lithium Batteries can be used on all of our machines. However, we recommend the use of batteries according to the tool, in order to achieve an increased optimization of autonomy, power and weight.

\* You use 5L of mixture per day at a price of €1.50 per litre.  
Data calculated for the regular use of the ULiB 1100 battery.

## INTRODUCTION

### RECOMMENDED USE OF BATTERIES AND TOOLS ACCORDING TO THEIR POWER AND AUTONOMY\*

	SPECIFIC BATTERY	MULTIFUNCTION BATTERIES				
		400	700	1100	POLY 5	OLIVION
Weight in kg (no harness nor belt)	200					
	1.9	3.4	5.5	5.9	3.4	5.5
LIXION Evolution - vineyard pruning shears	1 to 3 days					
LIXION Evolution adaptable - vineyard pruning shears		2 / 6 days	5 days	10 days	3 / 7 days	5 days
TREELION autonomous orchard pruning shears	1 to 2 days					
TREELION adaptable orchard pruning shears		3 days	4 / 5 days	7 days	3.5 days	4 / 5 days
HELION – hedge trimmer		1/2 day	Up to 1 day	Up to 2 days	1/2 day	Up to 1 day
OLIVION – olive harvester		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
CULTIVION – hoeing machine		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
SELION Pole - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION M12 - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION C21 HD - chainsaw		1 to 3 hours	3 to 5 hours	Up to 1.5 days	2 to 5 hours	
EXCELIION 1200 – grass-cutting brush cutter		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	
EXCELIION 2000 – brush cutter**			2 to 3 hours	3 to 4,5 hours	1 to 2 hours	
AIRION - blower		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	

\* Battery life depends on the tool, the use and the vegetation being worked on.

\*\* Autonomy is calculated using the Eco mode

 Recommended use

## INTRODUCTION

### OUR high output MOTORS

As well as Lithium-Ion technology, PELLENC masters the use of another: revolutionary PELLENC **electronic commutation motors**.

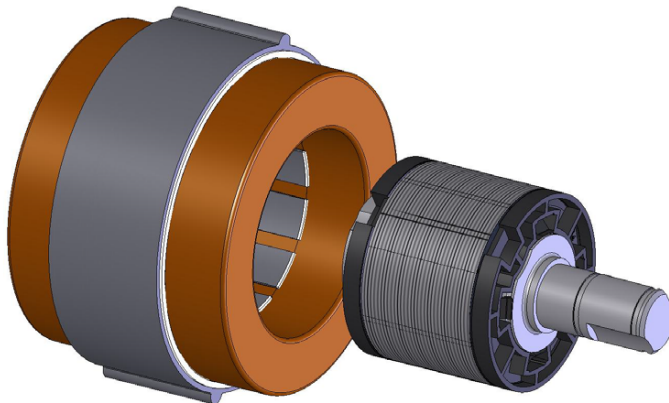
With these revolutionary motors, PELLENC has effectively rendered **the heat engine obsolete**. PELLENC intends to impose its idea of the tool for tomorrow: **powerful, light and pollution-free tools**.

Furthermore, the PELLENC technology motor is the only electric motor with as much **power output with the added advantage of being small, giving it an ideal weight**. The output of this motor is significantly higher than that of traditional direct-current motors with brushes. Friction caused by the brushes disappears, **the output of PELLENC motors is nearly 90 %**.

PELLENC motors are **Brushless motors**. This means that their service life is theoretically infinite, with only the service life of the ball bearings limiting the motor's service life. There is no **need for motor maintenance, as opposed to heat engines**.

PELLENC Brushless motors stop completely each time the trigger is pressed, on the contrary to heat engines. Therefore, sound emissions are very low to the benefit of the user and his immediate surroundings!

Finally, PELLENC Brushless motors often drive the cutting element directly (**no clutch or reduction gearbox, meaning less noise and wear**). Motor control is electronic, as is the power supply, meaning that noises linked to mechanical part movements are extremely limited.



53\_10\_071A

By using PELLENC battery and motor technology, you benefit from several advantages:

- energy savings
- ease and comfort of use
- free from motor maintenance
- power equivalent to and often higher than combustion engines
- extremely profitable tools
- lightweight
- no noise pollution or odors
- **virtually inexistent carbon emissions**
- Immediate start-up, no need for a starter.

**PELLENC OFFERS TECHNOLOGY WHICH MAKES THE HEAT ENGINE OBSOLETE**

## INTRODUCTION

### OUR RANGE OF PRODUCTS

PELLENC Green and City Technology develops new products every year in an aim to meet the requirements of professionals.

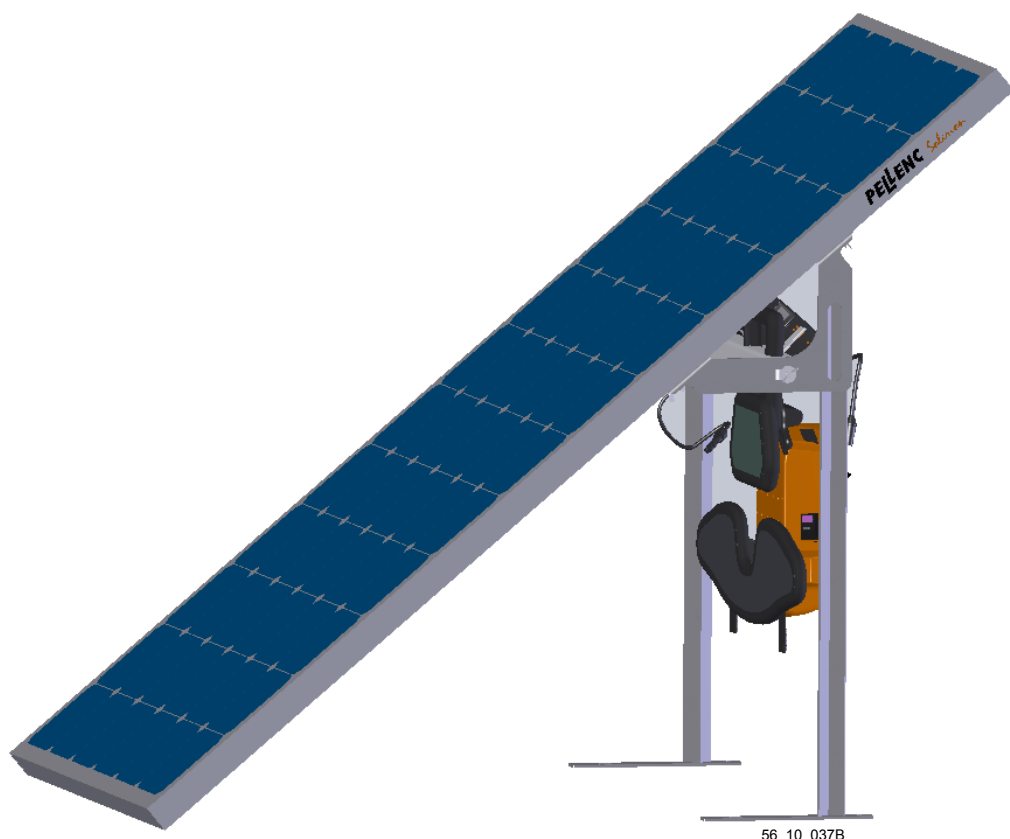
Today, our range of products is growing and our engineers are doing their utmost to create tools, thus pushing technology advances further.

Our passion is innovation, with an aim to improve the working quality and conditions for professionals by supplying a complete range of powerful, lightweight, easy-to-handle and very profitable tools:

- our blowers operate quietly with power modulation.
- our hedge-trimmers combine comfort and performance.
- our grass-cutting brush cutters are robust and multi-functional.
- our chainsaws are lightweight, powerful and very easy to handle.
- our pruning shears are the most powerful in the world.
- our hoeing machines, which are unique in the world, replace cumbersome rotary hoes.
- our olive harvesters are exceptionally efficient.
- our vine tying machine combines efficiency and profitability.
- our batteries have a very high autonomy.
- our mobile solar panel offers the possibility to charge your batteries anywhere.
- Exceptional light output of our autonomous lighting systems.

All of our tools have minimal CO2 emissions and meet the requirements of Local Collectivities or other associations in terms of a sustainable environment and ecology.

**PELLENC is the only company to propose a full range of tools which are 100 % clean and with zero CO2 emissions thanks to the SOLERION solar panels which can be used to recharge our batteries.**



56\_10\_037B



## INTRODUCTION



Hedge-trimmer  
HELION Universal



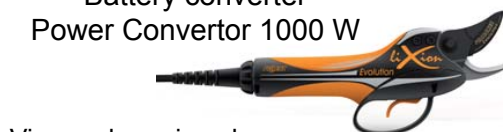
Battery converter  
Power Converter 1000 W



Chainsaw  
SELION C20



ULiB Battery  
200 - 400 - 700 - 1100 -  
POLY 5 - OLIVION



Vineyard pruning shears  
LIXION Evolution



Vineyard pruning shears  
LIXION Evolution II



Chainsaw  
SELION M12



Orchard and green space pruning  
shears - 2 hands -  
TREELION D45



Blower  
AIRION



Brush Cutter  
EXCELION 2000



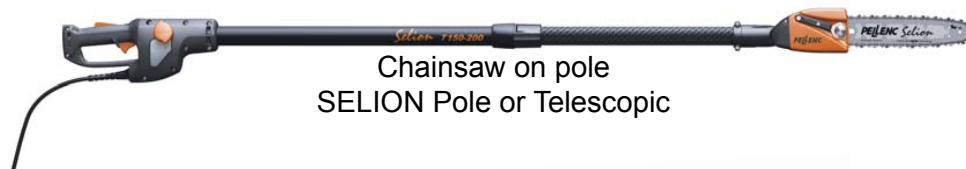
Orchard and green space  
pruning shears  
TREELION M45



Grass-Cutting Brush Cutter  
EXCELION 1200



Hoeing machine  
CULTIVION



Chainsaw on pole  
SELION Pole or Telescopic



Hedge-trimmer on pole  
HELION Pole or Telescopic



Lighting system  
LUMENION



Olive harvester  
OLIVION Pole or Telescopic



## INTRODUCTION



### ENVIRONMENTAL PROTECTION

Your equipment comprises numerous materials which can be valorised or recycled. Entrust these to your reseller or to an approved service centre so that they can be processed.



Comply with the regulations in force in your country as concerns environmental protection associated with your activity.



## SAFETY INSTRUCTIONS



### PLEASE KEEP THESE INSTRUCTIONS


This manual contains important information and operating instructions for the following tool: LIXION battery-powered pruning shears

It is **IMPERATIVE** that you read through the **ENTIRE USER'S MANUAL** before using or servicing the tool. Always comply with the instructions and illustrations in the manual.

All through this user guide you will find advisory notes and information entitled: **REMARK, CAUTION / WARNING**.

A **REMARK** provides additional information, clarifies a point or explains a step to be followed in detail.

The **CAUTION** and **WARNING** advisories are used to define a procedure which, if neglected or incorrectly performed, may lead to serious damage to the equipment and/or personal injury.

This advisory:  indicates that if the procedures or instructions are not complied with, any damage will not be covered by the warranty and the owner will be responsible for the repair costs.

Safety indications are also given on the tool; they remind you of the safety precautions to be taken. Identify and read these indications before using the tool. Immediately replace any indications that may become partially illegible or deteriorated.

**Refer to the «SAFETY INDICATIONS» heading in order to identify the location of the safety indications on the tool.**

No part of this manual may be reproduced without the written consent of PELLENC. The technical characteristics and the illustrations given in this manual are for information purposes and are in no way contractual. PELLENC reserves the right to make any modification or improvement to its products as deemed necessary without informing customers already in possession of a similar model. This manual forms an integral part of the tool and must accompany the tool if it changes hands.

## SAFETY INSTRUCTIONS

### GENERAL SAFETY INSTRUCTIONS FOR THE TOOL



**CAUTION** Read all the safety measures and all the instructions.  
Retain all the safety measures and instructions for later reading.

**This device is not intended for use by anyone (including children) with reduced physical, sensory or mental capabilities, nor by anyone lacking in experience or knowledge, except if they are supervised or have received prior instructions from a person responsible for their safety.**

- The LIXION is a professional tool reserved exclusively for pruning vines and fruit trees.
- The PELLENC company declines all responsibility in the event of damage caused by improper use or use other than that for which it is intended.
- The PELLENC company also declines all responsibility in the event of damage caused through the use of non-genuine parts or accessories.

### WORK AREA SAFETY

- 1**– Keep the work area clean and well lit.
- 2**– Do not operate power tools in an explosive atmosphere, for example in the presence of flammable liquids, gases, or dust.
- 3**– Keep children and bystanders away while operating the tool.

### ELECTRICAL SAFETY

- 1**– The power tool's connector must be adapted to the socket. Never modify the connector in any way whatsoever. Do not use adapter plugs with earthed (grounded) power tools.
- 2**– Avoid body contact with earthed surfaces such as pipes, radiators, cookers, and refrigerators.
- 3**– Do not expose tools to rain or damp conditions.
- 4**– Do not misuse the power cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges, and moving parts.
- 5**– Use an extension cord suitable for outdoor use when operating power tools outdoors.
- 6**– If operating the power tool in a damp location is unavoidable, use a power supply protected by a residual current device (RCD).

### PERSONNEL SAFETY

- 1**– Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol, or medication.
- 2**– Use safety equipment. Always wear eye protection.
- 3**– Avoid accidental starting of the tool. Make sure the switch is in the off position before connecting the tool to the power source and/or battery pack, picking it up, or carrying it.
- 4**– Remove any adjusting wrench before switching the tool on.
- 5**– Do not rush. Adopt a suitable position and remain balanced at all times.
- 6**– Dress appropriately. Do not wear loose clothing or jewellery.
- 7**– Keep hair, clothing and gloves away from moving parts.
- 8**– If devices are provided for connecting dust extraction and collection equipment, ensure that these are connected and properly used.

## **SAFETY INSTRUCTIONS**

### **TOOL USAGE AND MAINTENANCE**

- 1– Do not force the tool. Use the tool suited for the job.
- 2– Do not use the tool if the switch does not allow it to be switched on and off.
- 3– Disconnect the plug from the power source and/or battery pack prior to any adjustment, change of accessories or before putting the tool away.
- 4– When not in use, keep tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate it.
- 5– Comply with the tool servicing instructions. Check that the moving parts are not out of alignment or jammed, that there are no broken parts or that there is no other condition which could affect the operation of the tool. If damaged, have the tool repaired before using it.
- 6– Keep cutting tools sharp and clean.
- 7– Use the tool, accessories and blades, etc. in accordance with these instructions, taking into account the working conditions and the work to be done.

### **MAINTENANCE AND UPKEEP**

- 1– Have the tool serviced by an authorised PELLENC distributor, using only identical spare parts.

## **SAFETY WARNINGS FOR LIXION BATTERY-POWERED SHEARS**

- 1– Never modify the connector in any way whatsoever.
- 2– THIS TOOL MAY CAUSE SEVERE INJURIES. Read carefully the instructions relative to the proper handling, operation, maintenance, start-up and stop of the pruning shears. Familiarize with all the controls and proper use.
- 3– When the pruning shears are not in use, systematically turn the battery off «0»
- 4– Before starting the motor, make sure that the blade is not in contact with any object.
- 5– Always use a suitable lifting device complying with the working regulations in force for overhead works.
- 6– Never use the tool if it is damaged, incorrectly set or incompletely assembled.
- 7– Never remove or disable a safety device. Have the safety device repaired if it is faulty.
- 8– Never disconnect the pruning shears power cord without first checking that the ON/OFF switch of the battery has been set to OFF «0».
- 9– Never carry the pruning shears suspended from the power cord.
- 10– Do not disassemble the pruning shears.
- 11– Do not open the direct box.
- 12– Do not try to cut too large pieces of wood or other materials than wood.

## **SAFETY MEASURES FOR THE CHARGER AND THE BATTERY**



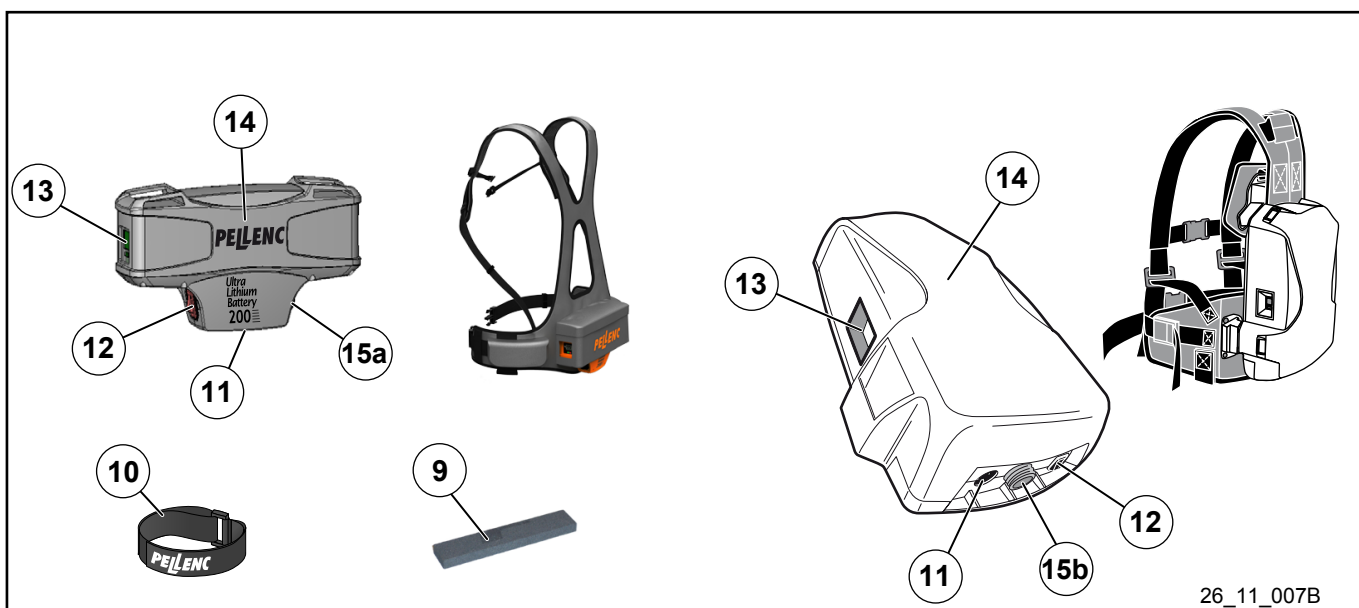
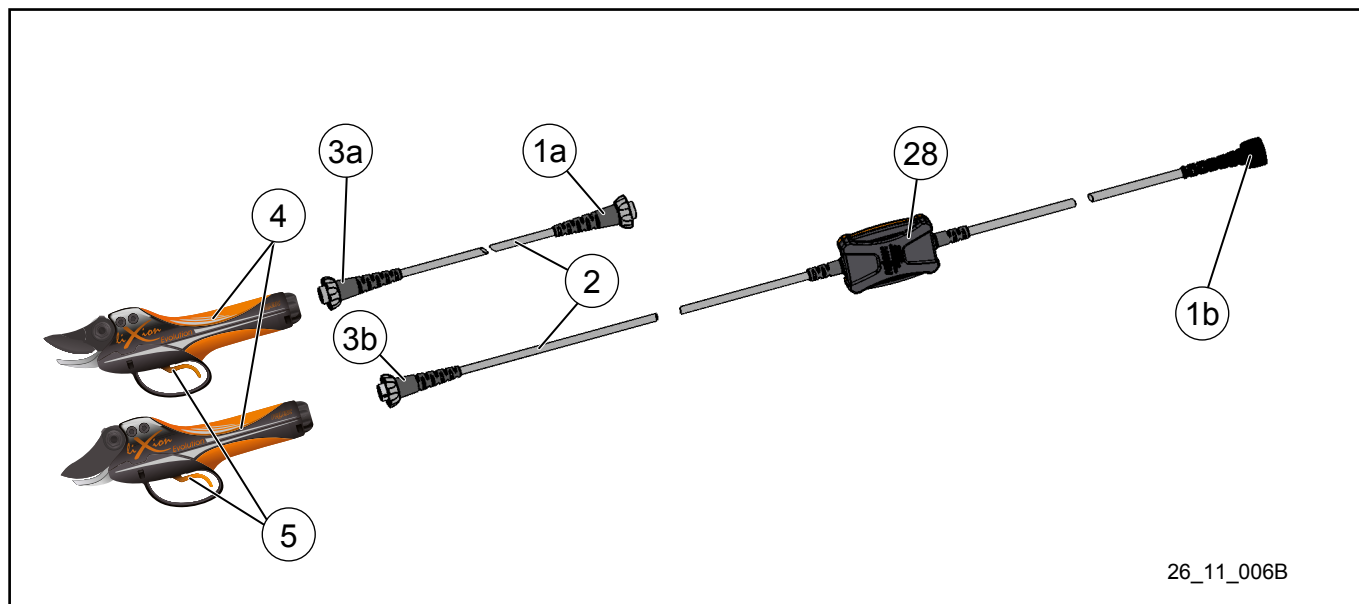
**Refer to the Pellenc tools battery manual.**

## DESCRIPTION AND TECHNICAL CHARACTERISTICS

- 1a/1b— Battery connector plug
- 2— Shears cord
- 3a/3b— Tool connector plug
- 4— Pruning shears
- 5— Main trigger
- 9— Sharpening stone
- 10— Arm band
- 11— Charger connector
- 12— Switch
- 13— Charge level indicator
- 14— Complete battery pack\*
- 15a/15b— Tool connector
- 28— Adaptor unit

Tooling :  
 Flat-blade screwdriver  
 Adjusting wrench blade pin  
 Tube of grease  
 Hexagonal wrench

\* Varies between models



## TECHNICAL CHARACTERISTICS

	<b>Lixion</b>
Cutting capacity	up to 35 mm (1.77 inch) depending on the type of wood
Pruning shears supply voltage	44 V
Average power rating	150 W
Working capacity (time)	According to use and battery type
Weight of pruning shears	780 g (2.08 Lb)

Total vibration values (triax vector sum) determined in accordance with EN 60745-1 (Uncertainty K=1.5 m/s <sup>2</sup> )	$a_h < 2.5 \text{ m/s}^2 \text{ max.}$
--------------------------------------------------------------------------------------------------------------------------------	----------------------------------------

Noise value measured according to the standard EN 60745-1	
Sound power level measured (Uncertainty K=3 dB)	$L_{WA} = 81 \text{ dB maximum}$
Level of acoustic pressure at the work station measured (Uncertainty K=3 dB)	$L_{pA} = 70 \text{ dB maximum}$

## USING FOR THE FIRST TIME

- Remove shears and cord from packaging.
- See the instruction manual of the battery to be used for information about the carrying strap or harness



### REMINDER

Make sure that the ON/OFF switch (12) is set to OFF position «0» (red section no longer visible).

## VERSION LIXION + CORD + SHEARS BATTERY

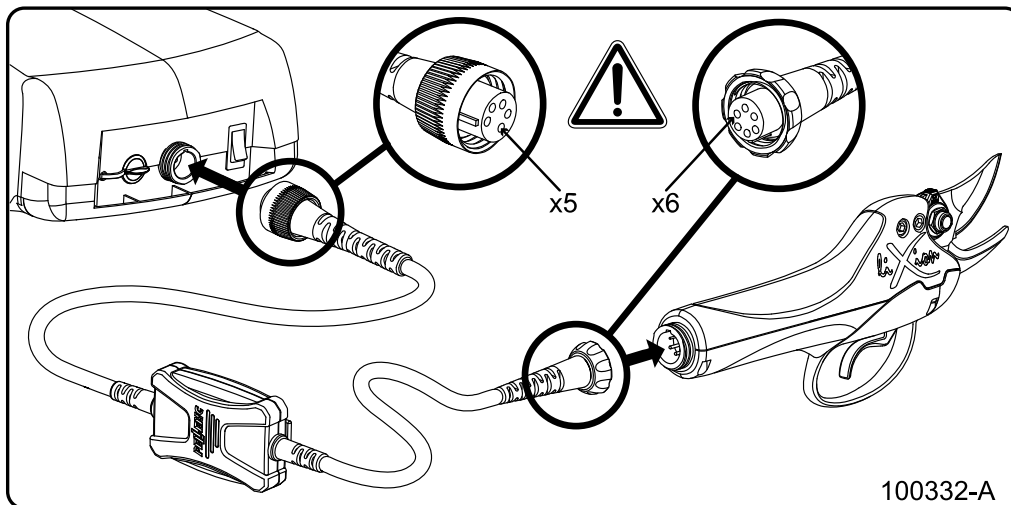
- The cord can be installed in both directions.
- Insert cord plug 1a in outlet 15a on battery pack Manually tighten locknut.
- Insert cord plug 3a on back of shears Manually tighten locknut.

## VERSION LIXION + ADAPTOR UNIT + MULTIFUNCTION BATTERY

- Insert cord plug 1b in outlet 15b on battery pack Manually tighten locknut.
- Insert cord plug 3b on back of shears Manually tighten locknut.



**BE SURE TO INSTALL IN THE RIGHT DIRECTION!**



## USE

- Grasp the pruning shears, press trigger **5** with the index finger, and with the other hand, move switch **12** from the off position «0» to the on position «1» (red face visible). The pruning shears are ready for use; release trigger **5**, blade **20** opens (the opening and closing of the blade is proportional to finger movement).
- To switch off the pruning shears, close blade **20** using trigger **5**, keep the blade closed and move switch **12** to the off position «0» (red face not visible).
- To save the battery power and to ensure maximum endurance of the pruning shears, we advise you to keep the blades closed and to open them only to the size of the wood to be cut.
- If the wood is too thick, the pruning shears stop in the closing direction. Only opening is possible.

## ADVICE FOR USE

- There is no point in forcing trigger **5** to help cutting, you may twist the trigger and jam the pruning shears.
- You must take all necessary precautions to prevent the pruning shears power supply lead **2** from snagging in the branches. For this purpose, attach lead **2** to your arm using arm band **9** supplied, or feed it through your sleeve.
- The endurance and service life of the pruning shears depend mainly on the correct sharpening and tightening of the blade. This must be checked continuously as you would with hand shears (refer to MAINTENANCE).
- We recommend that you do not disconnect the pruning shears from the «battery» pack after daily use, but that you wind the lead around the «battery» pack and put them back together in their case.

## REMARKS

- Several hours of pruning are necessary to master the use of the pruning shears.
- The battery is discharged when charge level indicator **13** shows 0%.
- If the shears no longer cut cleanly and effortlessly, this means the shears are consuming more power than necessary. Check the sharpness and overall condition of the shears.

## SHARPENING

This operation is essential because it determines the cutting quality and the service life of the blades, the mechanical components and the endurance of the battery. Sharpening frequency depends of course on the wood that is cut (hardness and diameter), the pruning rate and the sharpening tool (a special stone **9** is provided). Therefore, during the first days of use, the condition of the blade cutting edge must be checked regularly in order to maintain the edge by resharpenering it little but often (a check every quarter of an hour will quickly give you an idea of this frequency).

**IT IS IMPORTANT TO REMOVE THE BURR FROM THE BLADE CUTTING EDGE AND TO PERFORM THE FIRST SHARPENING OPERATION AFTER THE FIRST 15 MINUTES.**

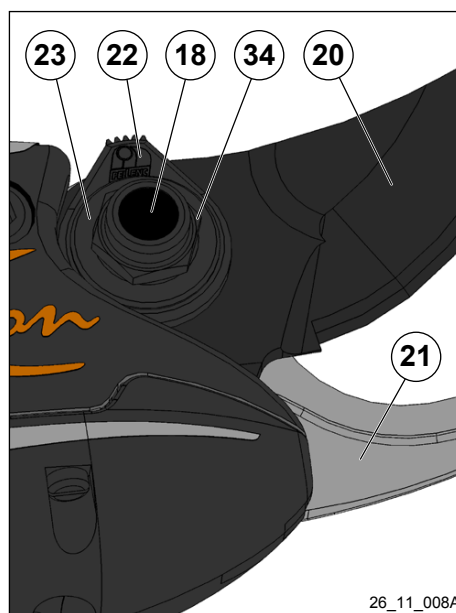
## TIGHTENING THE BLADE

- There must be no lateral play.
- The play in the cutting direction must be tactile.

To obtain this play:

- Perform these operations with the blade open, with the switch in position «0».
- Tighten adjustment nut **34** until knurled adjusting washer **22** no longer turns.
- Loosen adjustment nut **34** by a quarter turn.
- Check the tightness of the blade:
  - The knurled washer **22** must turn with the blade open.
  - The knurled washer **22** must not turn with the blade closed.
- Re-adjust the tightness if necessary using the adjustment nut **34** with the adjustment wrench.
- Excessive tightening can cause incorrect operation, incorrect cutting at the blade tip and reduced endurance of the battery.

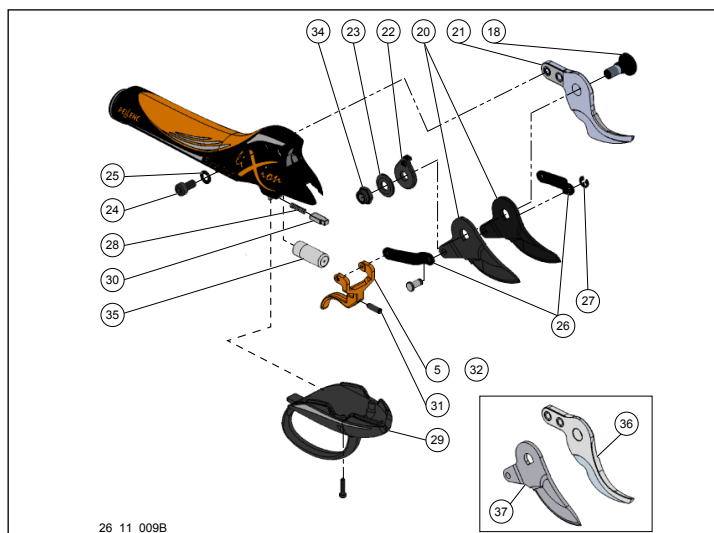
- 18** Blade pin
- 20** LIXION blade
- 21** LIXION hook
- 22** Knurled adjusting washer
- 34** Lock nut
- 23** Washer, 8.2 x 17 x 1





## DESCRIPTION OF THE CUTTING HEAD

- 5 Trigger
- 18 Blade pin
- 20 LIXION blade
- 21 LIXION hook
- 22 Knurled adjusting washer
- 23 Washer, 8.2 x 17 x 1
- 24 Screw, CHC M 6 x 12 CL 12.9
- 25 Lock washer
- 26 Link (one pair)
- 27 Clip, dia. 5
- 28 Spring, C 3.9 x 15.1 x 0.5 11 S
- 29 Inspection cover
- 30 Trigger magnet
- 31 Stop screw
- 32 LIXION shouldered pin
- 34 Lock nut
- 35 Ball screw protector
- 36 LIXION EVO II Hook
- 37 LIXION EVO II Blade



## REPLACING THE BLADE OR PINS

Follow the instructions in the order indicated:

- Open the blade to the half-open position.
- Set switch **11** to position «0».
- Disconnect lead **2** from the pruning shears.
- Remove inspection cover **29**.
- Disassemble shouldered pin **32** by removing dia. 5 clip **27**.
- Remove nut **34** from blade pin and disassemble the assembly.
- Replace the worn parts.
- Reinstall the blade on the hook after greasing the surface, then blade pin **18**.
- Reinstall shouldered pin **32** and a new clip **27** (use new clips only).
- Reinstall inspection cover **29**.
- Tighten the blade pin in accordance with the previous paragraph.
- Reconnect the pruning shears.



**CAUTION : never operate the pruning shears without the blade and the pins. This will damage the ball screw and the casing of the pruning shears.**

## REPLACING THE HOOK

Proceed as for replacement of the blade, reinstall the hook, washers **25** and screws **24** and tighten to **14 Nm** (10 lbf.ft) (use new genuine-part screws only).

## ADJUSTING BLADE BYPASS

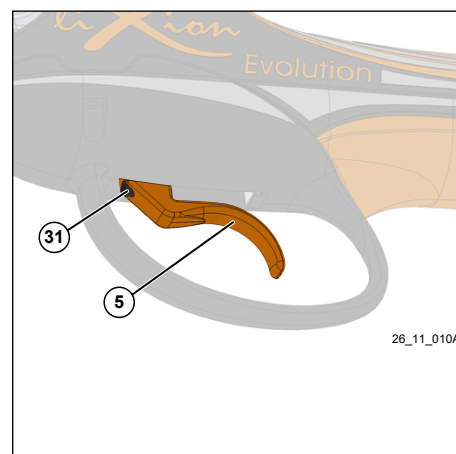
- 5 Trigger
- 31 Stop screw

- Close blade **20** completely.
- Check the bypass of blade **20** relative to hook blade **21**.
- Adjust stop screw **31** located on trigger **5** to increase or reduce the bypass.

Screw in stop screw **31** to limit the bypass.

Screw out stop screw **31** to increase the bypass.

Correct blade bypass corresponds to approximately 5 millimeters (0,2 inch).



## MISCELLANEOUS MAINTENANCE

- Avoid the formation of abrasive paste (oil + soil) as much as possible via frequent cleaning. To do this:
  - Clean the front of the shears with a cloth and compressed air, do not use solvents such as trichlorethylene, turpentine, gasoline, or similar products.
  - Lubricate the blade and the blade axes sparingly but often (once a week).
  - Do not leave the pruning shears in the soil or exposed to the elements.
- Parts 5, 18, 26, 27, 28, 30, 32, and 34 must be replaced EVERY 200 HOURS. These parts must be replaced as a precautionary measure or at least every year. To do this, a replacement kit (see MAINTENANCE PARTS Table) containing all of these parts is available.
- Replace the blade 20 (see MAINTENANCE PARTS Table) corresponding to your pruning shears at least as often as the you make replacements using the kit above.

## MAINTENANCE PARTS

	Standard range (1)				Evolution Range (1)				Evolution II range (1)			
	Classic blade (2)		Feather blade (2)		Classic blade (2)		Feather blade (2)		Classic blade (2)		Feather blade (2)	
	Right-handed	Left-handed	Right-handed	Left-handed	Right-handed	Left-handed	Right-handed	Left-handed	Right-handed	Left-handed	Right-handed	Left-handed
Right-handed hook	•	—	•	—	•	—	•	—	—	—	—	—
Left-handed hook	—	•	—	•	—	•	—	•	—	—	—	—
EVO II Right-handed hook	—	—	—	—	—	—	—	—	•	—	•	—
EVO II Left-handed hook	—	—	—	—	—	—	—	—	—	•	—	•

(1) Standard Range => Performance - Demands specific maintenance requiring expertise.

Evolution Range => Simplicity / a blade with a new, easily maintained profile, marking of the profile of the blade.

Evolution II Range => Ergonomics / same features as the Evolution but with additional pruning comfort depending on the vineyards and the working positions.

(2) Classic Blade = intensive pruning of hardwood.

Feather blade = fine and precise pruning for better penetration.

Contact your dealer for further information.

## REPLACING THE BATTERY

The battery must be replaced exclusively by an approved distributor.

## OUTSIDE THE PRUNING PERIOD

- Store the pruning shears, the «battery» pack and the charger in the carrying case, protected from heat, dust and humidity, and check that switch **12** is in position «**0**».
- Never store the battery at an ambient temperature greater than +45 °C (+113°F).
- **To conserve the service life of the battery and to prevent its deterioration, it is essential to store it in the charged state and to recharge it every 10 months when it is not used.**
- Do not operate the switch during the storage period.
- OUT OF SEASON, you can have the pruning shears overhauled by an approved repair center. For further information, consult your repair center or contact us.
- The battery must be stored in a dry and temperate area between 0 °C and +40 °C (+32°F and +104°F). No flammable object must be placed within 1.5 meters (5 ft) of the battery.

## INCIDENTS

If your pruning shears no longer work:

**1**– Set switch **12** to position «**0**».

**2**– Check the battery charge on the charge level indicator.

**3**– Check that lead **2** is correctly connected and that ring **1a / 1b** is tightened.

**4**– While pressing trigger **5**, set switch **12** to the on position «**1**».

**5**– If the pruning shears still do not work, return the assembly in its original packaging to an approved repair center.

**NEVER ATTEMPT TO OPEN EITHER OF THE «BATTERY» PACK OR CHARGER COMPONENTS** (you may damage them, and in particular, you will lose the benefit of the warranty)

## «PELLENC SA» TERMS OF WARRANTY AND NON-RESPONSIBILITY CLAUSE MACHINE RANGE FOR OEP

In the event of failure of a mechanical part and subject to normal, rational use and maintenance in compliance with the maintenance manual, **PELLENC sa guarantees its products for a period of ONE YEAR** as of delivery; this time shall not exceed a period of 18 months following departure from the factory of the equipment under warranty : on one hand in accordance with the conditions stipulated in the warranties of PELLENC sa and on the other hand subject to the delivery report indicating the commissioning date was made known to PELLENC sa.

In the event of an accident and total or partial destruction of the product, PELLENC sa's warranty can only be granted, and their responsibility engaged, if the party claiming the warranty can provide technical proof specifying the origin of the accident, a defect in materials or a structural defect and the product components which are the cause of it.

This contractual warranty excludes any other responsibility of PELLENC sa, whether implicit or explicit. For this reason, the responsibility of PELLENC sa can not exceed the limits defined above and covers, to a limited extent, repair **or** replacement, as chosen by PELLENC sa, of parts recognized to be defective and, when applicable, the labour required to perform the repair or replacement on the basis of warranty time as defined by PELLENC sa.

Any maintenance or repair work whatsoever carried out during the warranty period shall mandatorily be performed by PELLENC sa or by a PELLENC sa authorized dealer, under penalty of forfeiture of the warranty.

All costs arising from the immobilization, movement, approach and transport shall be, in all events, for the sole account of the purchaser.

As concerns parts or equipment that are not manufactured by PELLENC sa, in particular ball screw, battery, etc., the warranty is limited to that of the suppliers to PELLENC sa. Normal wear parts worn out as the result of use are never under warranty.

### **PELLENC sa and the authorized dealer shall not be liable in the following cases:**

- Malfunctions due to faulty servicing, user inexperience or abnormal use.
- Failure to perform overhauls and checks in accordance with manufacturer's instructions.
- Replacement of genuine parts or accessories with parts of accessories of another origin, or when the machine sold has been transformed or modified.

This warranty is explicitly limited to the terms defined above. **PELLENC sa shall not be liable, under any circumstances, for payment of any indemnity for any reason whatsoever.**

However, it is specified, in compliance with the provisions of decree No. 78.464 dated March 24th 1978, that this contractual guarantee does not replace the legal guarantee which obliges the seller to guarantee the buyer against the consequences of defects or hidden defects of the object sold.

## SPECIAL WARRANTY CONDITIONS

**PELLENC s.a.** guarantees its motor for a period of **THREE YEARS** from the date of delivery.

**PELLENC s.a.** guarantees the battery for a period of **THREE YEARS** from the date of delivery, on the condition that:

- the number of recharging operations does not exceed 100 per year,
- the battery charging capacity has not exceeded 1 000 000 mAh since it was put into service,
- the battery is used at a temperature of between -5 °C and +35 °C (+23 °F and +95 °F),
- the battery is charged at a temperature of between +10 °C and +25 °C (+50 °F and +77 °F),
- the battery has not been heavily discharged,
- the average consumption does not exceed 350 mA.



**NEVER ATTEMPT TO OPEN THE PRUNING SHEARS OR «BATTERY» PACK OR THE WARRANTY WILL BE NULLIFIED. CONTACT AN APPROVED REPAIR CENTER.**

## PATENTED EQUIPMENT

- The technical characteristics are given for information purposes; they are in no case contractual.
- **PELLENC** reserves the right to make all design and manufacturing changes deemed necessary in order to enhance **PERFECTION**.

**Roger PELLENC**

Chief Executive Officer

## "EC" DECLARATION OF CONFORMITY

MACHINES DIRECTIVE 2006/42/CE, APPENDIX IIA.

(ONLY CONCERNS EUROPE)

MANUFACTURER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)
PERSON/ENTITY AUTHORISED TO COMPILE THE TECHNICAL DOSSIER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)

WE HEREBY DECLARE THAT, FOR THE MACHINE HEREINAFTER REFERRED TO AS:

GENERIC DENOMINATION	ELECTRIC PRUNING SHEARS
FUNCTION	INTENDED FOR PRUNING
COMMERCIAL NAME	LIXION EVOLUTION
TYPE	LIXION
MODEL	LIXION
SERIAL No.	

COMPLIES WITH THE PERTINENT PROVISIONS OF THE MACHINES DIRECTIVE (2006/42/CE)

AND COMPLIES WITH THE PROVISIONS OF THE FOLLOWING OTHER EUROPEAN DIRECTIVES:

- ELECTROMAGNETIC COMPATIBILITY (2004/108/CE)
- LIMITATION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (2011/65/EU)
- RECYCLING AND RECOVERY OF ELECTRICAL AND ELECTRONIC WASTE (2012/19/EU)

THE FOLLOWING HARMONIZED EUROPEAN STANDARDS WERE USED:

- EN 55014-1 : 2006 + A1 : 2009 + A2 : 2011
- EN 55014-2 : 1997 + A1 : 2001 + A2 : 2008
- EN 61000-3-2 : 2006 + A1 : 2009 + A2 : 2009
- EN 61000-3-3 : 2013
- EN 60745-1 : 2009 + A11 : 2010

CONCLUDED AT PERTUIS, DATED 03/06/2014

ROGER PELLENC  
CHIEF EXECUTIVE OFFICER

